

CLAIMS

1. A video color signal transmission system comprising:

a plurality of selectable sources of sets of video color signals, each set selectable for transmission and including red, green and blue video color signals,

a plurality of transmitters, one of each for one of each of said red, green and blue video color signals of a selected said set, each said transmitter including:

a single ended to balanced signal converter responsive to each said video color signal, thereby providing sets of balanced red, green and blue video color signal outputs,

a transmission cable comprising:

a plurality of twisted pair communications lines, each twisted pair communications line having a first end and a second end, said first end of each said twisted pair communications line coupled to a one of said balanced video color signal outputs and said second end of each said twisted pair communications line providing a balanced one of said red, green and blue video color signal outputs, with a twist rate of each said twisted pair communications line effecting a signal delay;

a plurality of receivers, one of each for one of each said red, green and blue video color signal, each said receiver comprising:

a balanced input coupled to said second end of a respective said communications line of said communications cable,

an amplifier and balanced to single ended converter coupled to

23 said balanced input, and
24 a single-ended video signal color output couplable from said balanced to
25 single-ended converter to a selected one of a plurality of monitors;
26 said system also including a high frequency booster for each said video
27 color signal.

1 2. A transmission system as set forth in claim 1 wherein said twist rate of at
2 least two of said twisted pair communications lines is different.

1 3. A transmission system as set forth in claim 1 further comprising a signal
2 delay circuit coupled to one of each of at least two of said second ends of each
3 said twisted pair communications line wherein said two of said three video color
4 signals are delayed.

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6 4. A transmission system as set forth in claim 3 wherein each said signal delay
7 circuit provides a different delay to two of said three video color signals.

8 5. A transmission system as set forth in claim 3 wherein each said signal delay
9 circuit includes a transmission line of selectively variable length and switches for
10 selectively inserting one of more of a length of said transmission line, providing a
11 selection of one of a plurality of signal delays.

1 6. A transmission system as set forth in claim 1 wherein the twist rate of said
2 twisted pair communications line carrying the red color signal has a lowest twist
3 rate and the twisted pair communications line having a next largest twist rate
4 carries the green color signal.

1 7. A transmission system as set forth in claim 1 wherein:

2 said transmission cable includes a synchronization twisted pair
3 communications line having first and second ends,

4 a source of synchronization signals coupled to said first end of said
5 synchronization twisted pair communications line, and said second end of said
6 synchronization twisted pair communications line being couplable to said
7 monitor; and

8 said synchronization twisted pair communications line has a highest
9 twist rate of any of said twisted pair communications lines of said cable.

1 8. A video color transmission system as set forth in claim 1 including a high
2 frequency video color signal boost circuit for each said video color signal, each
3 said high frequency video color signal boost circuit being incorporated in a
4 respective said balanced to single-ended output circuitry.

5 9. A video color transmission system as set forth in claim 8 wherein each of said
6 high frequency video color signal boost circuits includes a plurality of reactances,
7 each of said plurality of reactances having a time constant for boosting a
8 particular frequency range.

1 10. A transmission system as set forth in claim 3 wherein each said signal delay
2 circuit is a balanced transmission line.